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- Title (ascending)
- Open Date (descending)
- Close Date (descending)
- Release Date (ascending)

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Displaying 1 - 10 of 616 results

1. DTRA152-001: Radiation Hardened Optoelectronics for Optical Interconnects

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

With the dominance of parallel processing, the rise integrated “system on chip” (SOC) architecture, and the continuing need to handle more data more quickly, traditional electronic interconnects are reaching their practical limits. Optical data transfer has already replaced electronic data transfer in long distance applications (km) and shorter distance high bandwidth applications (m-cm) due t ...

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2. DTRA152-002: Materials Development for Enhanced X-ray Detection of Dynamic Material Events Under Fast Loading Rates

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Defense Threat Reduction Agency’s Basic Research Program, Thrust Area 4 – Science to Defeat WMD (weapons of mass destruction), has been supporting research of hard and deeply buried targets including penetration of concretes and geological materials. With new experimental facilities that now couple high intensity and high flux x-ray capabilities with impact drivers (e.g. lasers, gas guns, ...

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3. DTRA152-003: High Performance Computing (HPC) Application Performance Prediction & Profiling Tools

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DTRA uses High Fidelity computer codes to investigate weapon effects phenomenology and techniques for countering WMD. End to end High Fidelity simulations in support of the DTRA Agent Defeat Warfighter Capability will require calculations including multiple phenomena that occur in vastly different time scales (μs to hours). The resulting code run times will be prohibitively long without optimizat ...

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4. DTRA152-004: Instrumentation for Characterization of Fireballs, Hot Gases, & Aerosols from Defeat of Targets Containing Biological and Chemical Agents

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Testing of methods to defeat chemical and biological agents often requires scaled experiments involving rapid combustion of bio- and chemical- agent simulants. This effort will focus on the development of next-generation instrumentation for effective characterization of physical and chemical processes occurring during rapid combustion in the expanding fireball, to provide quantitative and qualitat ...

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5. DTRA152-005: Joint Learning of Text-based Categories

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

J9CXQ has the challenge of identifying and extracting evidential information from a complex and ambiguous text. An automated extraction system is being developed that will detect and characterize categories of entities, relations, events, and topics. The extracted information will be stored in a knowledge base that will enable automatically finding patterns and searching for critical information. ...

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6. DTRA152-006: Island-mode Enhancement Strategies and Methodologies for Defense Critical Infrastructure

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The defense critical infrastructure (DCI) is the composite of DoD and non-DoD assets essential to project, support, and sustain military forces and operations worldwide. The DCI includes, but is not limited to, elements such as military bases, ballistic missile defense installations, radar sites, etc. An electromagnetic (EM) attack (nuclear electromagnetic pulse [EMP] or non-nuclear EMP [e.g., hig ...

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7. DTRA152-007: Multi-mode Handheld Radioisotope Identification Instrument

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DTRA is seeking development of handheld radioisotope identification instrumentation with extended capabilities for identifying and categorizing isotopic sources. Passive measurements of gamma-ray signatures can be adversely compromised by shielding around the source. Neutrons are an additional signature that may either substantiate a finding or, more importantly, elucidate an anomaly that may aris ...

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8. DTRA152-008: Standoff Detection of Highly Enriched Uranium

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Within the Federal and State governments there are several select agencies whose mission is to detect the presence of highly enriched uranium without revealing the search activity or the means of detection. The most challenging task is detection from an undisclosed survey vehicle moving at no more than typical urban speeds. The commercial applications for this product would be fall out for DOD req ...

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9. T1.01: Affordable Nano/Micro Launch Propulsion Stages

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):LaRC,KSC,GRCAs small satellites have become more capable of performing valuable missions for both government and commercial customers, there has been significant growth in both the quantity and quality of Nano and Micro Satellite missions. Currently these satellites can only be launched affordably as secondary payloads; but the number of these missions has o ...

STTR National Aeronautics and Space Administration

10. T1: Launch Propulsion Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Launch Propulsion Systems reflects a staged development of critical technologies that include both □pull□ technologies that are driven by known short- or long-term agency mission milestones, as well as □push□ technologies that generate new performance or mission capabilities over the next 20 to 25 years. While solid and liquid propulsion systems are reaching the theoretical limits of efficienc ...

STTR National Aeronautics and Space Administration

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- …
- Next
- Last

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